

84-1242-13502
12/85

SOIL GEOCHEMISTRY
OK-II AND OK-III MINERAL CLAIMS
MOUNT THOEN AREA
OMINECA MINING DIVISION, B.C.
NTS 93 M/6 E & 7 W
LATITUDE 55°23'N, LONGITUDE 127°01'W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,502

Locke B. Goldsmith, P.Eng.
Consulting Geologist

December 3, 1984

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APPENDIX: GEOCHEMICAL ANALYSES

GEOLOGY MAP, WITH ASSAYS AND
SOIL GEOCHEMISTRY (Pocket inside back cover)

SOIL GEOCHEMISTRY
OK-II AND OK-III MINERAL CLAIMS
MOUNT THOEN AREA
OMINECA MINING DIVISION, B.C.

SUMMARY

A programme of soil geochemistry was planned to cover the OK-III claim. Foul weather allowed access by helicopter on only one day, causing the work to be terminated short of completion. One sample at 00 1+50W contains elevated metal values. Otherwise no strongly anomalous patterns were detected. Reconnaissance soil geochemistry should be completed on the OK-II and OK-III claims at an estimated cost of \$15,000.

INTRODUCTION

The OK-II and -III claims are located on the east and southeast flanks of Mount Thoen which is approximately 65 km north of Smithers, B.C. Access is best achieved by helicopter from Smithers. A winter road follows the Suskwa River valley some 3 km south of the OK-III claim. Elevations range between 1370 m (4500') in the southeast corner of the property and 2305 m (7559') on the peak of Mount Thoen near the northwest boundary of the OK-II. Originally two other claims, the OK-I and OK-IV, were staked; these have been allowed to lapse because no significant mineralization was found in the 1980 programme. Recording data of the remaining two claims are listed below.

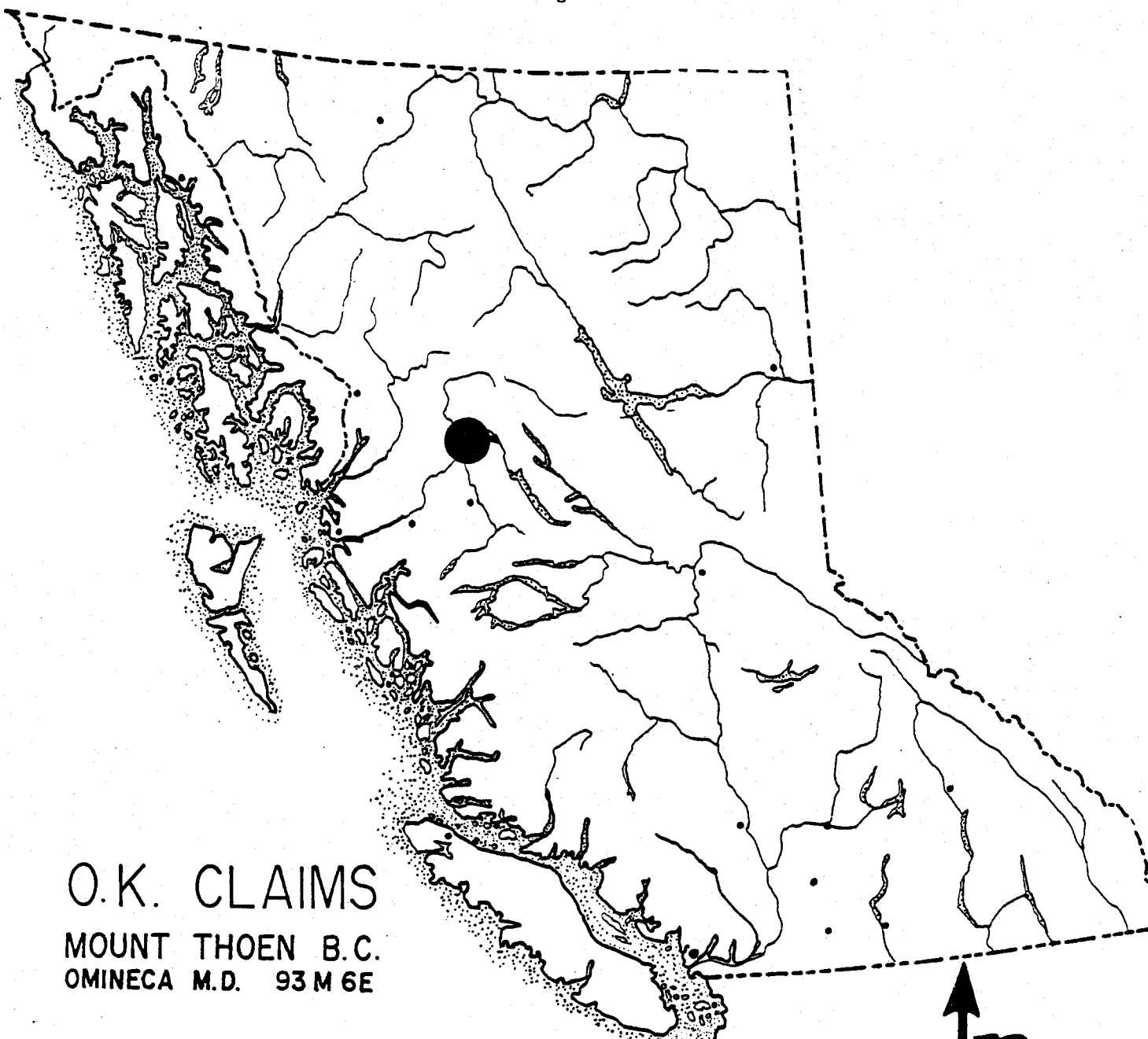
<u>Claim Name</u>	<u>Number of Units</u>	<u>Record Number</u>	<u>Date Recorded</u>
OK-II	8	2437(1)	Jan. 28, 1980
OK-III	8	2438(1)	Jan. 28, 1980

Regional and property geology was summarized in a report previously filed for assessment work (Logan *et al.*, 1980) and is not reproduced herein. The map from the earlier report is included, with soil geochemistry and several outcrops added in the southeast corner of the OK-III claim.

Fog, freezing rain, and snow prevented precise location of the grid at the beginning of the survey. As the lines were run, it was determined that they are located as shown on the map. Base line is north-south with cross lines at 200-metre intervals and sample stations 50 metres apart. Approximately 2 km of grid was established.

GEOLOGY

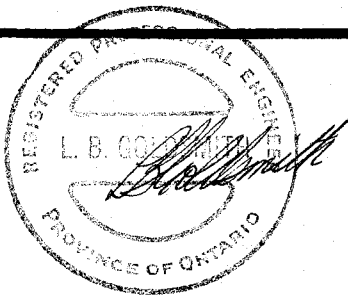
Four outcrops were noted within the area which was covered with soil sampling. Coarse-grained grit and hornfelsed fine-grained clastic sediments occur to the east of the southeast corner of the OK-III. Fine-grained quartz monzonite is present in two outcrops at 00 7+53W and 2+00N 10+00W. The exposures allow tentative interpolation across the OK-III claim to the same rock types which were mapped in more detail on the OK-II.



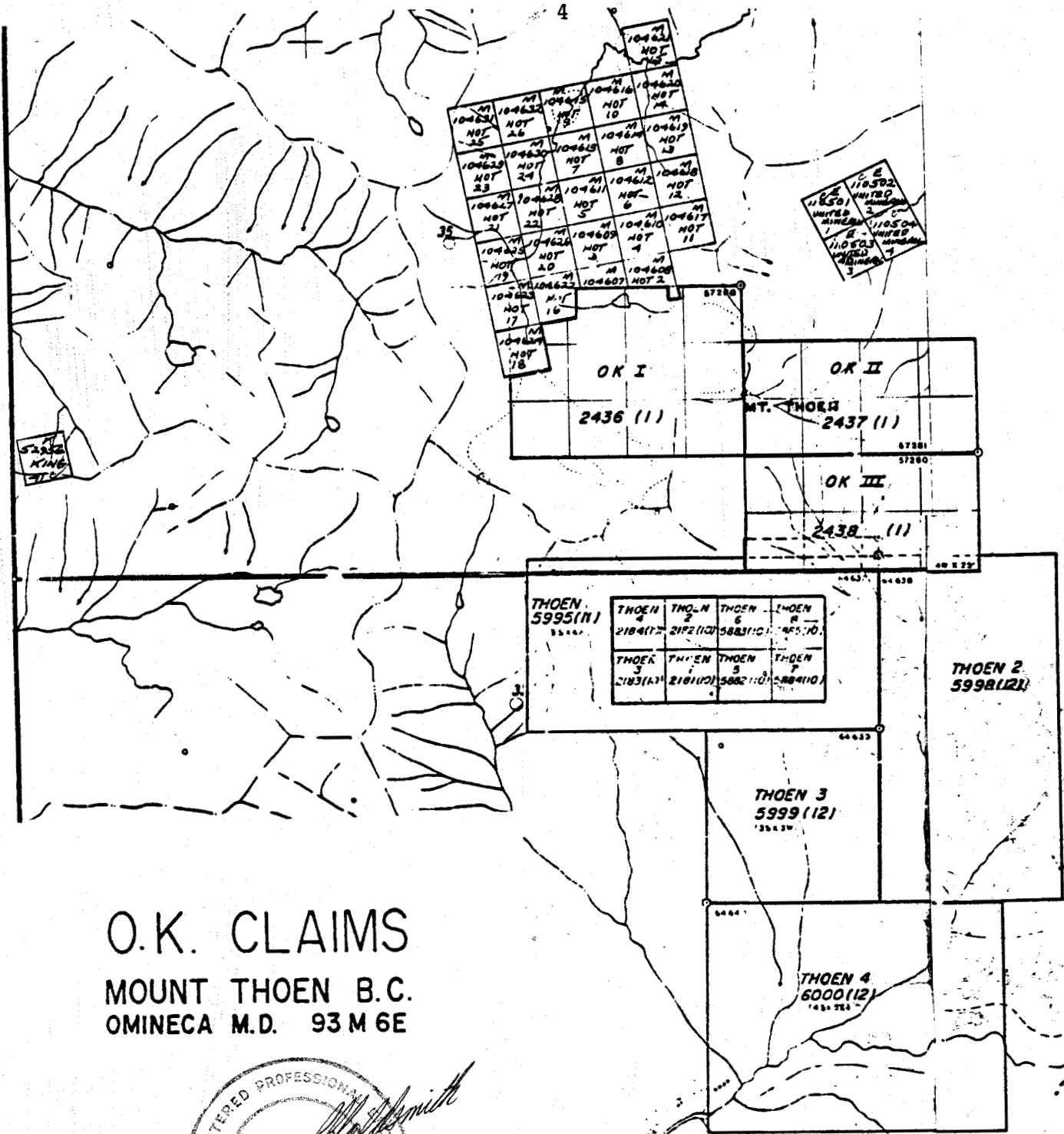
O.K. CLAIMS
 MOUNT THOEN B.C.
 OMINECA M.D. 93 M 6E

Location map

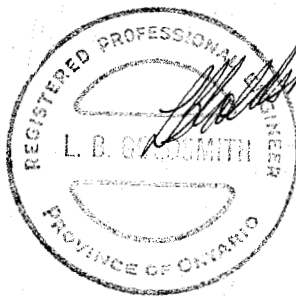
LOCKE B. GOLDSMITH, P.ENG.
 Consulting Geologist



DECEMBER 1984



O.K. CLAIMS
MOUNT THOEN B.C.
OMINECA M.D. 93 M 6E



CLAIM MAP

LOCKE B. GOLDSMITH, P.ENG.
Consulting Geologist

DECEMBER 1984

SOIL GEOCHEMISTRY

Forty-three soil samples were analysed for copper-lead-zinc-silver by Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, B.C. Analytical procedures are described in the Appendix. Samples were collected in the "C" horizon at a depth of 30-45 cm with a narrow, elongate spade. Soils are uniformly brown, silty sand, containing fragments of metasediments. Statistical treatment of the small data base was not attempted. One sample at 00 1+50W contains elevated quantities of all metals up to approximately twice background, with adjacent samples above background in zinc and silver. These values may be related to a metasomatic aureole around the quartz monzonite as suggested by hornfelsed sediments noted in outcrop at 00 0+50W.

CONCLUSIONS

Mineralization in place similar to that found on the OK-II claim was not observed. Geology in the southeast corner of the OK-III claim appears similar to that which was mapped on the OK-II. Reconnaissance soil geochemistry did not suggest targets for immediate detailed exploration.

RECOMMENDATIONS

Reconnaissance geological mapping and soil sampling should be completed over the entire property.

COST ESTIMATE

A budget of \$15,000 should be available to undertake the survey.



Respectfully submitted,

A handwritten signature in cursive script that reads 'Locke B. Goldsmith'.

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.

December 3, 1984

ENGINEER'S CERTIFICATE
LOCKE B. GOLDSMITH

1. I, Locke B. Goldsmith, am a Registered Professional Engineer in the Province of Ontario and the Northwest Territories, and a Registered Professional Geologist in the State of Oregon. My address is 301, 1855 Balsam Street, Vancouver, B.C.
2. I have a B.Sc. (Honours) degree from Michigan Technological University and have done postgraduate study in Geology at Michigan Tech, University of Nevada and the University of British Columbia. I am a graduate of the Haileybury School of Mines and am a Certified Mining Technician. I am a member of the Society of Economic Geologists, the AIME, and the Australasian Institute of Mining and Metallurgy, and a Fellow of the Geological Association of Canada.
3. I have been engaged in mining exploration for the past 26 years.
4. I have authored the report entitled, "Soil Geochemistry, OK-II and OK-III Mineral Claims, Mount Thoen Area, Omineca Mining Division, B.C.", dated December 3, 1984. The report is based upon fieldwork and research supervised by the author.
5. I own 100% interest in the property.
6. I consent to the use of this report in a prospectus or in a statement of material facts related to the raising of funds.



Respectfully submitted,

A handwritten signature in cursive script that reads 'Locke B. Goldsmith'.

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.
December 3, 1984

REFERENCE

Logan, J.M. *et al.* 1980. Geological investigation of Mount Thoen claim group, OK-I, -II, -III, -IV mineral claims, Omineca Mining Division, Smithers, B.C. Private report prepared for Short Staun Minerals Corporation.

COST STATEMENT, 1984 PROGRAMME

Wage Scales:

L.B. Goldsmith, $\frac{1}{2}$ Oct. 16, $\frac{1}{2}$ Dec. 1, 2, total 2 days @ \$360/day	\$ 720.00	
I. Francis, prospector, Oct. 21-26, total 6 days @ \$200/day	1,200.00	
G. Iverson, prospector, Oct. 21-26, total 6 days @ \$200/day	1,200.00	
	<u>3,120.00</u>	\$3,120.00

Food, Accommodation:

Total expenditure of \$428.13 \div 12 field days = \$35.68/day		428.13
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Transportation:

4x4 vehicle, 6 days @ \$45/day	270.00	
2745 km, Silverton, B.C. to property, return @ \$0.30/km	823.50	
Gas	181.11	
Helicopter	836.55	
	<u>2,111.16</u>	2,111.16

Analyses:

43 soil samples, cost \$253.00 = \$5.88/sample		253.00
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Report:

Drafting, prints, typing, photocopying, materials		<u>309.70</u>
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TOTAL		\$6,221.99
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APPENDIX

Copper, Lead, Zinc, Silver ppm:

1.0 gm sample is digested with perchloric-nitric acid (HC104-HN03) for approximately 2 hours. The digested sample is cooled and made up to 25 mls with distilled water. The solution is mixed and solids are allowed to settle. Copper, lead, zinc and silver are determined by atomic absorption techniques. Silver and lead are corrected for background absorption.

Detection limit: Copper, Zinc - 1 ppm
Silver - 0.2 ppm
Lead - 2 ppm



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Telephone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : GOLDSMITH, MR. L. B.

#301-1855 BALSAM STREET
VANCOUVER, B.C.
V6K 3M3

CERT. # : A8417581-001-A
INVOICE # : I8417581
DATE : 6-NOV-84
P.O. # : NONE
OK III

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm		
LON 00+00W	203	26	28	75	0.8	--	--
LON 01+00W	201	20	13	43	0.9	--	--
LON 01+50W	203	105	65	115	1.1	--	--
LON 02+00W	201	40	25	118	0.6	--	--
LON 02+50W	201	12	8	32	0.4	--	--
LON 03+00W	203	50	16	60	0.5	--	--
LON 03+50W	203	70	22	115	0.6	--	--
LON 04+00W	203	23	12	48	0.8	--	--
LON 04+50W	203	20	9	43	0.4	--	--
LON 05+00W	201	22	10	42	0.3	--	--
LON 05+50W	201	28	16	63	0.6	--	--
LON 06+00W	201	26	13	58	0.8	--	--
LON 06+50W	203	17	8	42	0.3	--	--
LON 07+00W	201	27	15	50	0.7	--	--
LON 07+50W	201	41	15	85	0.9	--	--
LON 07+53W	201	27	10	103	0.5	--	--
LON 08+00W	203	28	12	83	1.0	--	--
LON 08+50W	201	24	14	72	0.4	--	--
LON 09+00W	201	28	22	52	0.5	--	--
LON 09+50W	201	19	10	55	0.9	--	--
LON 10+00W	203	25	5	40	0.4	--	--
L0+50N 10+00W	201	20	11	48	0.6	--	--
L1+00N 10+00W	201	31	12	58	0.6	--	--
L1+50N 10+00W	201	22	17	48	0.5	--	--
L2N 01+00W	201	16	18	88	0.4	--	--
L2N 01+50W	201	16	5	63	0.3	--	--
L2N 02+00W	203	35	8	65	0.4	--	--
L2N 02+50W	203	65	7	45	0.4	--	--
L2N 03+00W	201	10	5	14	0.4	--	--
L2N 03+50W	203	32	11	43	0.6	--	--
L2N 04+00W	203	24	6	39	0.4	--	--
L2N 04+50W	203	20	17	70	0.6	--	--
L2N 05+00W	203	37	26	168	0.7	--	--
L2N 05+50W	201	18	5	45	0.5	--	--
L2N 05+62W	201	27	8	90	0.5	--	--
L2N 06+00W	203	38	15	100	0.7	--	--
L2N 06+50W	201	40	13	208	0.9	--	--
L2N 07+00W	201	27	10	55	0.4	--	--
L2N 08+00W	201	31	17	73	1.0	--	--
L2N 08+50W	201	20	12	53	0.6	--	--



Certified by *Hart Bichler*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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Telex: 043-52597

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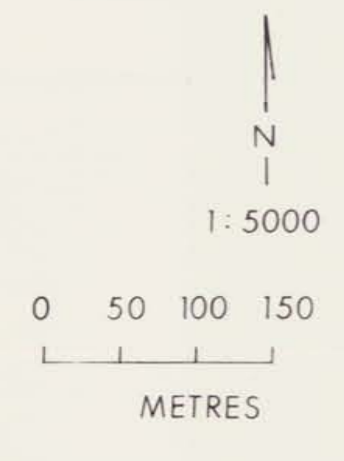
#301-1855 BALSAM STREET
VANCOUVER, B.C.
V6K 3M3

CERT. # : A8417581-002-A
INVOICE # : I8417581
DATE : 6-NOV-84
P.O. # : NONE
OK III

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm		
L2N 09+00W	201	32	12	70	0.6	--	--
L2N 09+50W	201	18	9	35	0.4	--	--
L2N 10+00W	201	23	11	82	0.6	--	--



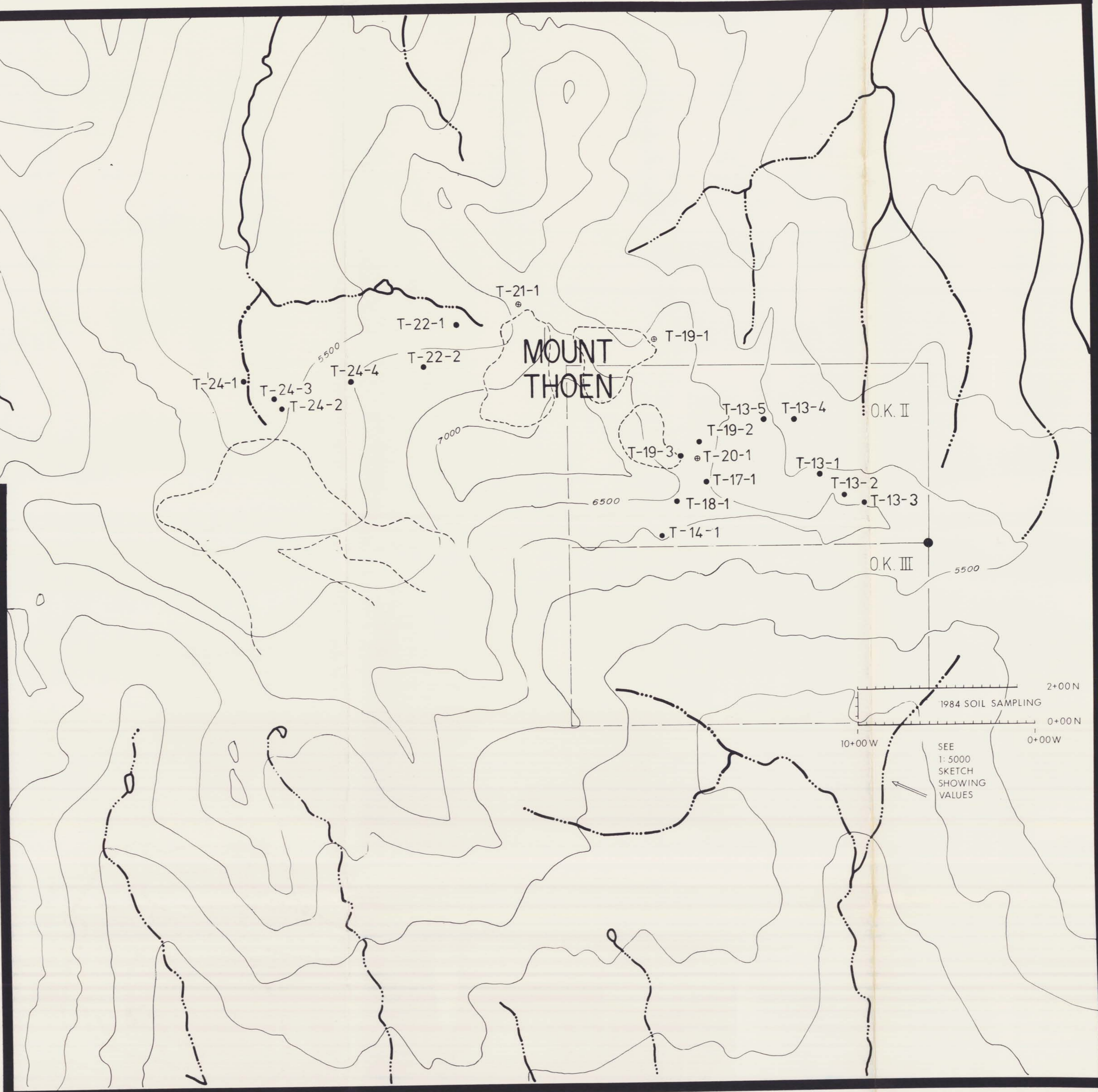
Certified by Hart Bichler



1984 SOIL GEOCHEMISTRY
OK III CLAIM

PPM. Cu—20
PPM. Zn—48
PPM. Pb—11
PPM. Ag—0.6

10+00 W	27	0+00 W																	
11	9	12	12	17	10	13	15	15	26	17	6	11	5	7	8	5	18		
22	23	18	32	20	31	27	40	38	18	37	20	24	32	10	65	35	16	16	
31	48	82	35	70	53	73	55	208	100	45	168	70	39	43	14	45	65	63	88
12	0.5	0.6	0.4	0.6	0.6	1.0	0.4	0.9	0.7	0.5	0.7	0.6	0.4	0.6	0.4	0.4	0.3	0.4	
20	5.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
0+00 W	10+00 W	0+00 W																	



1980
0 125 250 500 1000
METRES
1:12500

ROCK SAMPLE LOCATIONS
AND
1984 SOIL SAMPLING GRID

SEE 1:5000 SKETCH SHOWING VALUES

**O.K. CLAIM GROUP
MOUNT THOEN, B.C.
OMINECA M.D.
93 M 6E**

1980 ROCK & 1984 SOIL SAMPLING, 1984 GEOCHEMISTRY

ASSAY RESULTS 1980
LOCAL GEOLOGY 1980 J.M. LOGAN

TO ACCOMPANY REPORT BY
L. B. GOLDSMITH, P. Eng., CONSULTING GEOLOGIST

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,502

ARCTEX ENGINEERING SERVICES
AMENDED DECEMBER 1984
SEPTEMBER 1980

SAMPLE NO.	ASSAY RESULTS					SAMPLE NO.	ASSAY RESULTS				
	Cu	Pb	Zn	Ag	Au		Cu	Pb	Zn	Ag	Au
T13-1	1.86	<0.001			0.046	T19-3	0.06	<0.001	14.0	14.4	47.22
T13-2	1.07	<0.001			0.003	T20-1	0.16	<0.001	5.80	12.5	3.32
T13-3	5.32	<0.001			0.034	T21-1	0.01	<0.001			<0.001
T13-4			1.24	9.39	8.44	T22-1	0.01	<0.001			<0.001
T13-5			11.2	9.20	167.60	T22-2	0.20	<0.001			<0.001
T14-1			6.17	11.1	19.44	T24-1	<0.01	<0.001			<0.001
T17-1	2.88	<0.001			0.005	T24-2	<0.01	<0.001			<0.001
T18-1	0.79	<0.001	0.38	0.05	4.70	T24-3	0.01	<0.001			<0.001
T19-1			0.36	0.82	34.74	T24-4	<0.35	<0.001	0.14	0.46	1.80
T19-2	2.75	<0.001	0.06	0.40	4.64	T29-1					<0.001

LOCAL GEOLOGY



Symbols

- LEGAL CORNER POST
- ▲ CAMPSITE
- ADIT
- TRENCH
- ⊗ FLOAT
- GEOLOGICAL BOUNDARY: DEFINED, APPROXIMATE, ASSUMED
- BEDDING
- SHEAR
- JOINTING
- OUTCROP
- CLAIM BOUNDARY

Stratigraphy

- Early Tertiary**
 - 3p PORPHYRYTIC
 - 3g GRANITIC
 - 3a APLITIC
- Upper Jurassic & Lower Cretaceous**
 - 2 HORNFELS, QUARTZITE & SLATE
 - 1 GREYWACKE, SILTSTONE, SANDSTONE & MINOR CONGLOMERATE

